PUBLIC HEALTH REPORTS.

The Surface Privy as a Factor in Soil Pollution, with Resulting Hookworm Disease and Typhoid Fever.

By Ch. Wardell Stiles, Ph. D., Chief of the Division of Zoology, Hygienic Laboratory, United States Public Health and Marine-Hospital Service.

Recent investigations on the subject of hookworm disease in the South have brought to light certain conditions of soil pollution which call for serious consideration because of their influence on the spread of disease, especially hookworm disease and typhoid fever.

By actual count of 366 farmhouses scattered over four Southern States, it was found that only 115 houses, or 31.4 per cent, were provided with privies, while 251 houses, or 68.5 per cent, had no privy. Thus, a condition of theoretical maximum soil pollution was occurring around 68.5 per cent of the houses in question. When it is considered that both hookworm disease and typhoid fever are spread through night soil, the importance of this soil pollution becomes evident.

Even when a privy is present soil pollution may occur in case the outhouse is not properly built or not properly cleaned.

It should be recalled that anything less than a sewer system is a compromise with the ideal, and when from financial or other reasons a sewer system is not feasible, it is well to make the best possible compromise.

Among several thousand privies examined, on farms and in various villages, the prevailing style was found to be the surface privy open in back. This is the poorest compromise that can be made, for not only is the danger present of contaminating the water supply in near-by wells, but soil pollution naturally occurs around the outhouse, and this is increased by the fact that chickens, dogs, and hogs have access to the night soil and scatter the infectious material around. Further, also, flies and other insects either breed in or feed upon the excreta and carry fecal material to the food in the houses. An urgent necessity is present for a radical reform in this matter and for the abolition of this style of privy.

A slight but not sufficient improvement is found when this style of privy is provided with a swinging door in back, thus not only improving the appearance of the structure but excluding chickens, dogs, and swine from the excreta.

A still further improvement is obtained by use of a floor privy with a water-tight tub under the seat: the back should be closed by a swinging door. Every time this tub is emptied a thin layer of sand or other soil should be placed in the tub. If a cheap fluid disinfectant also is placed in the tub this will tend not only to kill the disease germs and hookworm eggs, but also to repel the flies and

other insects, to decrease the odor, and thus to render the privy less of a nuisance than it otherwise may be, especially in warm climates and in summer. This style of privy was found in a few villages.

Still another style found is completely closed in back, and a pail is placed under the seat. This pail is taken out through the front.

In only a comparatively few instances were water-tight vaults found. The vault has, of course, certain great advantages, but is somewhat more expensive than the tub and pail systems and is also not so easily cleaned by the house occupants. Even when a vault is present it is advisable to use some insect repellant. In some instances it was found that when the privies were cleaned the night soil was used for fertilizer. Without going into the question whether or not the value of human excreta as fertilizer is as great as popularly supposed, attention may be invited to the important fact that especially in any warm and moist locality, particularly in sandy regions, such use is a menace to public health unless the night soil is stored for some time in order to permit it to thoroughly ferment. With the present knowledge of the methods by which hookworm disease and typhoid fever are spread, the sale of fresh untreated night soil by towns to farmers, for use as fertilizer, is without excuse and should be prohibited.

One method of disposal of the excreta taken from the privies is to burn it. This method is almost ideal, but naturally involves some expense; nevertheless, it is worth the expense. In case the fresh night soil is buried, care should be taken to bury it in a place sufficiently removed from any drinking-water supply to prevent infection.

The following case is given illustrating the good accomplished by doing away with the surface privy:

Several years ago, at the invitation of Doctor Julian, the physician in charge, I visited a certain orphanage in North Carolina. We found a number of cases of hookworm disease among the children. Upon examining the premises we found the surface privy open in back, and the institution was urged to do away with this system. A sewer system was installed, and recently Doctor Julian has communicated the following results to me:

There were 10 deaths in the orphanage due to hookworm disease, during the 13 years prior to my visit; this number was greater than the number of deaths from all other causes combined. Since my visit (1903) not a single death from this cause has occurred. Since the surface privy was done away with, not a single case of hookworm disease has developed in the institution. During the year prior to the construction of the sewer 100 cases of typhoid developed; since the construction of the sewer not a single case of typhoid has developed in the institution.

A reduction of soil pollution in the South means a reduction of hookworm disease and typhoid, hence a reduction of the mortality, especially in women and children, an increase in vitality and mentality, and an elevation of the condition (mental, physical, and financial), especially of the tenant white class.

The soil pollution (with its resulting hookworm disease) now occurring on the southern farms is responsible for a large amount of the anemia found among the farm hands, and hence for a great deal of the inefficiency met with among farm laborers.

To do away with this soil pollution is not only in the interest of the public health, but also in the interest of the further economic development of the South, especially on the farms and in the textile industries.

UNITED STATES.

[Reports to the Surgeon-General, Public Health and Marine-Hospital Service.]

Reports from San Francisco, Cal.—Plague-prevention work at San Francisco, Oakland, and Point Richmond, and in Alameda and Contra Costa counties, Cal.

Surgeon Blue reports:

SAN FRANCISCO, CAL.

Last case of human plague: Sickened, January 30, 1908.
Last case of rodent plague: October 23, 1908.

Week ended September 11, 1909.

Sick inspected	1
Plague	0
Dead inspected	91
Plague	0
Premises inspected	1,751
Houses disinfected	20
Houses destroyed	2
Buildings condemned	11
Nuisances abated	157
Rats found dead	9
Rats trapped	1,944
Total rats taken	1,953
Rats identified:	
Mus norvegicus	1,512
Mus rattus	57
Mus musculus	360
Mus alexandrinus	15
Total	1,944
Rats identified as to sex:	
Male	769
Female	833
Total	1,602
Rats examined bacteriologically	1,255
Plague rats	0
Poisons placed	16,992
Total number of rats infected to date	398

OAKLAND, CAL.

Last case of human plague: Sickened, July 17, 1908.
Last case of rodent plague: Trapped, December 1, 1908.

Week ended September 11, 1909.

Dead inspected	25
Plague	0
Rats found dead	23

Rats trapped	541
Rats identified	564
Mus norvegicus	522
Mus rattus	2
Mus musculus	40
Rats examined bacteriologically	523
Plague rats	0

POINT RICHMOND, CAL.

Week ended September 11.

Sick inspected	1
Plague	0
Dead inspected	3
Plague	0

ALAMEDA COUNTY, CAL. (EXCLUSIVE OF OAKLAND).

Week ended September 4, 1909.

Last case of human plague: Sickened 10 miles east of Sunol, July 27, 1909.
Last case of rodent plague: Found September 4, 1909.

Dead inspected	43
Plague	0
Ranches inspected	62
Ground squirrels shot	526
Ground squirrels examined bacteriologically	389
Ground squirrels infected with *B. pestis*	6
Total number of ground squirrels found infected to date	17

Plague-infected ground squirrels obtained from the following-named places.

August 30, 1909.

Matsen's ranch	1

August 31, 1909.

Matsen's ranch	1

September 3, 1909.

Thiele ranch	2
Matsen's ranch	1

September 4, 1909.

Matsen's ranch	1

Plague case in Alameda County.

Doctor Blue reports, September 27:

September 24, Manuel Avila, aged 5 years, Californian, Portuguese parentage, 2 miles southwest of Sunol, Alameda County, has clinical plague. Isolated Alameda County Infirmary.

CONTRA COSTA COUNTY, CAL. (EXCLUSIVE OF POINT RICHMOND).

Week ended September 4.

Last case of human plague: Sickened July 21, 1908.
Last case of rodent plague: Found September 2, 1909.

Ranches inspected	165
Ground squirrels shot	2,071
Ground squirrels found dead	4
Ground squirrels examined bacteriologically	1,726
Ground squirrels infected with *B. pestis*	4
Total number of ground squirrels infected to date	195

Plague-infected ground squirrels obtained from the following-named places:

August 26, 1909.

Flemming ranch	1

August 28, 1909.

Evoy ranch	1

September 2, 1909.

Fernandez ranch	1
Belshaw's ranch	1

Report from Seattle, Wash.—Plague laboratory work, month of August, 1909.

Assistant Surgeon Chapin reports, September 14:

During the month of August, 1909, 5,308 rats were delivered at the laboratory and 3,457 were necropsied. No plague-infected rats were found.

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES—UNTABULATED.

CALIFORNIA—*San Diego.*—Month of August, 1909. Estimated population, 45,000. Total number of deaths 33, including 3 from tuberculosis. Cases: Enteric fever 1, measles 1, tuberculosis 2.

COLORADO—*Colorado Springs.*—Month of May, 1909. Estimated population, 32,000. Total number of deaths 42, including scarlet fever 1 and 20 from tuberculosis. Cases: Diphtheria 1, scarlet fever 8.

Month of June, 1909. Total number of deaths 40, including enteric fever 1, whooping cough 1, and 11 from tuberculosis. Cases: Diphtheria 1, scarlet fever 9.

ILLINOIS—*Alton.*—Month of August, 1909. Estimated population, 22,000. Total number of deaths 19, including diphtheria 1, enteric fever 1, and 2 from tuberculosis. Cases: Diphtheria 5.

INDIANA—*Jeffersonville.*—Month of August, 1909. Estimated population, 12,000. Total number of deaths 12, including diphtheria 1 and 1 from tuberculosis. Cases: Diphtheria 2, enteric fever 2, tuberculosis 1.

Muncie.—Month of August, 1909. Estimated population, 30,266. Total number of deaths, 26, including enteric fever 1 and 4 from tuberculosis. Cases: Diphtheria 2, enteric fever 13, scarlet fever 3, and tuberculosis 1.

IOWA—*Davenport.*—Month of August, 1909. Census population, 35,254. Total number of deaths not reported. Cases of contagious disease reported: Diphtheria 7, enteric fever 1, tuberculosis 1.

Keokuk.—Month of August, 1909. Estimated population, 16,000. Total number of deaths, 20, including 1 from tuberculosis. Cases: None.

MINNESOTA. — Month of June, 1909. Estimated population, 1,979,658. Reports to the state board of health show as follows: Total number of deaths, 1,247, including diphtheria 36, enteric fever 21, scarlet fever 26, measles 4, whooping cough 16, smallpox 3, and 178 from tuberculosis. Deaths reported from state institutions during the month numbered 23, including 5 from tuberculosis.

NEW HAMPSHIRE—*Franklin.*—Month of August, 1909. Estimated population, 7,200. Total number of deaths, 4, including 1 from diphtheria. Cases: Diphtheria 1, enteric fever 1.

NEW YORK—*Saratoga Springs.*—Month of August, 1909. Estimated population, 11,822. Total number of deaths, 23, including 1 from tuberculosis. Cases: Enteric fever 1, whooping cough 2, and tuberculosis 2.

Yonkers.—Month of August, 1909. Estimated population, 72,200. Total number of deaths, 99, corresponding to an annual death rate of 16.45 per 1,000 of population, including diphtheria 1, scarlet fever 3, enteric fever 2, and 7 from tuberculosis. Cases: Diphtheria 12, scarlet fever 36, enteric fever 3, measles 3, and phthisis pulmonalis 18.

NORTH CAROLINA.—Month of July, 1909. Estimated population, 1,893,810. Reports of state board of health from 98 counties show as follows: Measles in 9 counties, whooping cough in 33 counties, scarlet fever in 16 counties, diphtheria in 27 counties, enteric fever in 81 counties, malarial fever in 10 counties, pernicious malarial fever in 3 counties, hemorrhagic malarial fever in 4 counties, and smallpox in 8 counties, viz: Harnett 4, Johnston 1, Lenoir 2, Mitchell 8, Montgomery 10, Nash 1, Pitt 8, Robeson 6, Rowan 1, Watauga 18.

UTAH—*Salt Lake City.*—Month of July, 1909. Estimated population, 85,000. Total number of deaths, 85, including diphtheria 1, enteric fever 3, scarlet fever 1, smallpox 1, and tuberculosis 5. Cases: Diphtheria 7, enteric fever 10, measles 1, scarlet fever 19, smallpox 26, whooping cough 14, and tuberculosis 4 (incomplete).

WISCONSIN.—Months of April, May, and June, 1909. Estimated population, 2,228,969. Total number of deaths, 7,195, including diphtheria 87, enteric fever 61, measles 36, scarlet fever 95, smallpox 1, whooping cough 43, and 681 from tuberculosis. Cases: Diphtheria 286, enteric fever 146, measles 1,334, scarlet fever 802, whooping cough 64, smallpox 273, and phthisis pulmonalis 251.

Smallpox in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, June 26 to October 1, 1909.

[For reports received from December 25, 1908, to June 25, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
Berkeley	July 25-31	1		
Hobart Mills	Apr. 1-30	1		
Sacramento	June 6-12	1		
San Francisco	June 6-July 3	2		
Truckee	Mar. 23	3		
Total for State		8		
Colorado:				
Adams County	Apr. 1-June 30	5		
Boulder County	Apr. 1-June 30	8		
Clear Creek County	Apr. 1-June 30	1		
Denver County—				
Denver	Apr. 1-June 30	10		
El Paso County	Apr. 1-June 30	3		
Fremont County	Apr. 1-June 30	13		
Grand County	Apr. 1-June 30	1		
Huerfano County	Apr. 1-June 30	24		
Larimer County	Apr. 1-June 30	4		
Las Animas County	Apr. 1-June 30	1		
Mesa County	Apr. 1-June 30	20		
Montrose County	Apr. 1-June 30	2		
Morgan County	Apr. 1-June 30	17		
Otero County	Apr. 1-June 30	1		
Pueblo County	Apr. 1-June 30	8		
Rio Grande County	Apr. 1-June 30	1		
San Miguel County	Apr. 1-June 30	4		
Weld County	Apr. 1-June 30	1		
Total for State		124		
Connecticut:				
New Haven	May 1-31	1		
Total for State		1		
District of Columbia:				
Washington	Aug. 8-14	1		
Total for District		1		
Georgia:				
Macon	June 14-July 11	8		
Total for State		8		
Illinois:				
Alexander County—				
Cairo	May 1-June 30	25		
Champaign County	Apr. 1-May 31	25		
Christian County	Apr. 1-May 31	35		
Clay County	Apr. 1-30	1		
Clinton County	Apr. 1-June 30	7		
Cook County—				
Chicago	June 20-Aug. 21	5		
Dewitt County	May 1-31	7		
Edwards County	Apr. 1-May 31	3		
Effingham County	Apr. 1-30	2		
Fayette County	May 1-31	2		
Franklin County	Apr. 1-May 31	2		
Fulton County	Apr 1-June 30			Present.
Gallatin County	Apr. 1-May 31	16		
Iroquois County	May 1-31	1		
Jackson County	Apr. 1-May 31	14		
Murphysboro	Apr. 1-May 31	40		
Knox County	Apr. 1-30	8		
Lake County	Apr. 1-July 31	14		
Lasalle County	Apr. 1-30	3		
McDonough County	Apr. 1-30	25		
McHenry County—				
Marengo	May 1-June 30	97		
Macoupin County	Apr. 1-May 31	6		
McLean County	June 1-30	1		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Illinois—Continued.				
Madison County	May 1-June 30	2		
Marion County	Apr. 1-June 30	14		
Massac County—				
Metropolis	Apr. 1-May 31	29		
Montgomery County	May 1-June 30	2		
Peoria County	Apr. 1-June 30	13		
Peoria	June 1-Aug. 31	46		
Perry County	Apr. 1-July 31	13		
Pulaski County	May 1-31	5		
Rock Island County—				
Moline	June 1-July 31	2		
St. Clair County—				
East St. Louis	May 1-June 30	11		
Saline County	May 1-31	30		
Sangamon County	Apr. 1-30	1		
Springfield	May 29-July 9	3		
Schuyler County	May 1-31	1		
Shelby County	Apr. 1-July 31	3		
Stephenson County	May 1-31	4		
Tazewell County	May 1-31	5		
Pekin	Apr. 1-July 31	70		
Union County	Apr. 1-May 31	5		
Vermilion County	Apr. 1-May 31	2		
Danville	June 14-Sept. 18	12		
Warren County	June 1-July 31	3		
Will County—				
Joliet	July 1-31	1		
Williamson County	Apr. 1-May 31	6		
Winnebago County	June 1-30	1		
Woodford County	Apr. 1-July 31	25		
Total for State		648		
Indiana:				
Allen County	May 1-31	5		
Fort Wayne	June 6-Sept. 11	88		
Carroll County	June 1-30	1		
Clay County	June 1-30	4		
Dearborn County	May 1-31	4		
Dekalb County	June 1-30	1		
Delaware County	May 1-31	1		
Muncie	June 20-July 10	4		
Fayette County	June 1-30	1		
Fountain County	July 1-31	1	1	
Gibson County	May 1-31	5		
Grant County	May 1-July 31	4		
Greene County	June 1-July 31	4	1	
Marion County—				
Indianapolis	June 14-20	1		
Montgomery County	May 1-June 30	9		
Parke County	May 1-31	1		
Pulaski County	May 1-31	2		
St. Joseph County	June 1-30	4		
South Bend	June 13-Aug. 14	5		
Tipton County	July 1-31	1		
Vanderburg County	May 1-June 30	26		
Vermilion County	May 1-July 31	43		
Vigo County	June 1-30	4		
Wayne County	May 1-July 31	15	1	
White County	May 1-31	2		
Total for State		236	3	
Iowa:				
Cedar Rapids	July 1-Aug. 31	2		
Keokuk	May 1-31	3		
Ottumwa	June 1-30	1		
Total for State		6		
Kansas:				
Allen County	May 1-31	5		
Atchison County	June 1-30	7		
Brown County	June 1-30	1		
Chautauqua County	May 1-31	3		
Cherokee County	May 1-31	1		
Coffey County	May 1-31	1		
Comanche County	June 1-30	3		
Cowley County	May 1-31	14		
Crawford County	May 1-31	20		
Pittsburg	May 1-June 30	4		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Decatur County	June 1-30	12	1	
Dickinson County	May 1-June 30	1		
Doniphan County	May 1-June 30	20		
Douglas County	May 1-31	1		
Elk County	May 1-31	1		
Ellsworth County	June 1-30	1		
Franklin County	May 1-31	5		
Geary County	May 1-31	4		
Graham County	June 1-30	6		
Greenwood County	May 1-31	3		
Jackson County	May 1-June 30	24		
Jefferson County	May 1-31	2		
Jewell County	May 1-31	6		
Kearny County	May 1-31	1		
Labette County—				
Parsons	May 1-June 30	8		
Lyon County	May 1-31	27		
Marshall County	May 1-June 30	225		
Montgomery County	May 1-June 30	3		
Nemaha County	June 1-30	1		
Osage County	May 1-June 30	32		
Osborne County	May 1-June 30	11		
Ottawa County	May 1-31	3		
Phillips County	May 1-31	1		
Pottawatomie County	May 1-June 30	7		
Pratt County	May 1-31	5		
Rawlins County	May 1-31	13		
Republic County	June 1-30	1		
Riley County	May 1-June 30	8		
Rush County	June 1-30	2		
Russell County	June 1-30	1		
Saline County	May 1-31	2		
Sedgwick County	May 1-31	11		
Wichita	July 11-Aug. 7	5		
Shawnee County	May 1-31	8		
Topeka	May 1-June 30	38		
Smith County	May 1-31	11		
Sumner County	May 1-31	3		
Thomas County	May 1-31	1		
Wabaunsee County	May 1-31	6		
Wyandotte County	May 1-31	4		
Kansas City	June 13-July 17	10		
Total for State		593	1	
Kentucky:				
Covington	June 13-July 3	5		
Lexington	June 20-Aug. 21	16		
Newport	June 14-July 25	4		
Paducah	June 13-26	3		
Total for State		28		
Louisiana:				
New Orleans	June 13-Sept. 4	13		
Total for State		13		
Maryland general	Mar. 1-Apr. 30	9		
Total for State		9		
Massachusetts:				
Boston	Sept. 12-18	1		
Lawrence	June 27-July 3	1		
Total for State		2		
Michigan:				
Bay County—				
Bay City	June 1-30	1		
Calhoun County	June 1-30	1		
Chippewa County	May 1-31	1		
Delta County	June 1-30	1		
Eaton County	May 1-June 30	21		
Emmet County	June 1-30	1		
Houghton County	May 1-31	1		
Huron County	June 1-30	1		
Ingham County	May 1-31	1		
Jackson County	May 1-31	1		
Kalamazoo County—				
Kalamazoo	July 4-24	2		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Kent County—				
Grand Rapids	June 6-26	2		
Lapeer County	June 1-30	1		
Marquette County	May 1-June 30	6		
Muskegon County	May 1-June 30	6		
Newaygo County	June 1-30	1		
Oceana County	May 1-31	1		
Ottawa County	May 1-June 30	7		
Saginaw County	May 1-June 30	17		
Saginaw	July 25-31	1		
St. Clair County	May 1-June 30	4		
Schoolcraft County—				
Manistique	June 1-30	27		
Tuscola County	May 1-31	4		
Wayne County—				
Detroit	May 1-31	1		
Total for State		110		
Minnesota, general	Mar. 1-Apr. 30		3	
Becker County	June 15-21	5		
Bigstone County	June 8-14	1		
Carver County	July 6-Aug. 16	6		
Clay County	July 28-Aug. 2	1		
Cottonwood County	July 1-31	1		
Crawford County	Aug. 10-16	1		
Faribault County	June 7-14	2		
Hennepin County—				
Minneapolis	May 1-June 30	39		
Hubbard County	May 25-31	1		
Itasca County	May 25-June 14	7		
Lesueur County	June 1-7	1		
McLeod County	May 25-July 19	2		
Mahnomen County	Aug. 2-16	2		
Marshall County	June 8-July 5	6		
Meeker County	May 25-31	5		
Morrison County	June 21-28	1		
Nobles County	May 25-June 21	2		
Olmsted County	June 8-14	2		
Pine County	May 25-31	1		
Ramsey County—				
St. Paul	Apr. 1-May 31	10		
Redwood County	June 1-7	1		
Rock County	June 1-7	1		
St. Louis County	May 25-June 21	3		
Duluth	June 10-Aug. 27	20		
Sibley County	June 22-July 19	4		
Stearns County—				
St. Cloud	July 13-19	1		
Steele County	May 25-June 21	3		
Swift County	July 20-26	1		
Wabasha County	May 25-31	2		
Wadena County	May 25-July 19	11		
Waseca County	May 25-31	8		
Wright County	June 15-Aug. 16	10		
Total for State		161	3	
Missouri:				
Kansas City	June 13-26	2		
St. Joseph	May 30-July 24	19		
St. Louis	June 20-Sept. 18	8		
Total for State		29		
Montana:				
Carbon County	June 1-July 31	6		
Cascade County—				
Great Falls	June 1-30	1		
Chouteau County	June 1-30	1		
Custer County	June 1-30	1		
Dawson County	May 1-31	5		
Deerlodge County	May 1-31	1		
Fergus County	June 1-30	1		
Flathead County	May 1-31	4		
Gallatin County	May 1-31	4		
Jefferson County	May 1-31	2		
Lewis and Clark County—				
Helena	May 1-31	1		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Montana—Continued.				
Missoula County—				
Missoula	June 1–July 31	4		
Park County	May 1–June 30	21		
Livingston	May 1–July 31	12		
Sanders County	May 1–31	1		
Silverbow County	June 1–July 31	16		
Butte	June 11–Aug. 26	34		
Teton County	May 1–31	1		
Valley County	May 1–31	1		
Yellowstone County	May 1–July 31	7		
Total for State		124		
Nebraska:				
Lincoln	May 1–July 31	34		
Total for State		34		
New York, general	May 1–June 30	433		
Total for State		433		
North Carolina:				
Beaufort County	June 1–30	1		
Bladen County	Apr. 1–30	5		
Buncombe County	Apr. 1–30	1		
Caldwell County	Apr 1–June 30	19		
Camden County	Apr. 1–June 30	70		
Carteret County	Apr. 1–30	1		
Craven County	Apr. 1–June 30	8		
Cumberland County	May 1–31	1		
Duplin County	Apr. 1–June 30	25		
Harnett County	June 1 July 31	7		
Johnston County	Apr. 1–July 31	3		
Lee County	Apr. 1–30	6		
Lenoir County	July 1–30	2		
Madison County	May 1–June 30	7		
Mecklenburg County	May 1–31	2		
Mitchell County	July 1–31	8		Apr. 1–30 present.
Montgomery County	July 1–31	10		
Nash County	June 1–30	1		
Onslow County	Apr. 1–30	2		
Pamlico County	May 1–31	4		
Pasquotank County	Apr. 1–May 31	15		
Pitt County	Apr. 1–June 30	17		
Robeson County	June 1–July 31	14		
Rowan County	May 1–July 31	17		
Sampson County	Apr. 1–June 30	51		In extreme northern part.
Transylvania County	May 1–31	5		
Wake County	Apr. 1–30	2		
Watauga County	June 1–July 31	30		
Wayne County	May 1–31	14		
Wilson County	Apr. 1–30	1		
Yancey County	Apr. 1–May 31	8		
Total for State		357		
North Dakota:				
Bottineau County	May 1–31	1		
Grand Forks County	May 1–June 30	7		
Lamoure County	May 1–June 30	3		
McHenry County	May 1–31	1		
Stutsman County	June 1–30	2		
Walsh County	June 1–30	2		
Ward County	May 1–June 30	9		
Total for State		25		
Ohio:				
Cincinnati	June 12–July 2	4		
Columbus	Sept. 12–18	1		
Dayton	July 18–Sept. 11	15	1	
Toledo	July 25–Aug. 7	2		
Total for State		22	1	
Oklahoma:				
Oklahoma	Apr. 3–Aug. 21	51	1	
Total for State		51	1	

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Oregon:				
Clackamas County	May 1–June 30	3		
Coos County	June 1–30	1		
Marion County	May 1–June 30	11		
Multnomah County	May 1–June 30	3		
Portland	Apr. 1–July 31	33		
Umatilla County	June 1–30	2		
Union County	June 1–30	1		
Washington County	May 1–June 30	14		
Yamhill County	June 1–30	3		
Total for State		71		
Pennsylvania:				
Philadelphia	July 10–24	4		
Total for State		4		
Tennessee:				
Knoxville	June 20–Aug. 21	7		
Total for State		7		
Texas:				
Archer County	June 1–30	1		
Baylor County	June 1–30	22		
Bee County	June 1–30	6		
Bexar County	June 1–30	1	1	
San Antonio	June 13–July 17	10		
Bowie County	June 1–30	7		
Cameron County	June 1–30	1		
Cherokee County	June 1–30	1		
Childress County	June 1–30	4		
Ellis County	May 1–June 30	2		
Galveston County	June 1–30	1		
Galveston	June 19–25	1		
Gonzales County	May 1–June 30	6	2	
Grayson County	June 1–30	9		
Harris County	June 1–30	12		
Houston	Mar. 28–June 19	17		
Harrison County	June 1–30	15		
Henderson County	June 1–30	15		
Jefferson County	May 1–June 30	3		
Jones County	June 1–30	2		
Kinney County	June 1–30	1	1	
Lamar County	June 1–30	12		
Matagorda County	May 1–June 30	10		
McLennan County	June 1–30	19		
Milam County	June 1–30	5		
Runnels County	May 1–June 30	17		
San Saba County	Apr. 9–June 30	11		
Smith County	June 1–30	10		
Stephens County	June 1–30	33	1	
Tarrant County	May 1–June 30	19	3	
Fort Worth	June 1–July 31	5		
Travis County	May 1–June 30	19		
Upshur County	May 1–June 30	2		
Van Zandt County	May 1–June 30	6		
Webb County				
Laredo	June 19	1		
Wharton County	June 1–30	2		
Wichita County	June 1–30	5		
Williamson County	June 1–30	4	1	
Total for State		317	9	
Utah:				
Boxelder County	May 1–31	3		
Cache County	June 1–July 31	4		
Carbon County	June 1–July 31	3		
Davis County	May 1–July 31	30		
Emery County	June 1–July 31	4		
Garfield County	May 1–July 31	6		
Salt Lake County	May 1–July 31	57	1	
Salt Lake City	June 1–30	56		
Sanpete County	May 1–July 31	29		
Summit County	May 1–July 31	67		
Tooele County	May 1–31	5		
Uintah County	May 1–July 31	21		
Utah County	May 1–July 31	10		
Webber County	May 1–July 31	4		
Total for State		299	1	

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Virginia:				
Lynchburg	June 20-26	1		
Total for State		1		
Washington:				
Spokane	June 6-July 3	7		
Tacoma	May 14-June 27	6		
Total for State		13		
Wisconsin:				
Ashland County	Jan. 1-Mar. 31	8		
Barron County	Jan. 1-June 30	93		
Brown County	Apr. 1-June 30	18		
Buffalo County	Jan. 1-Mar. 31	5		
Burnett County	Jan. 1-Mar. 31	11		
Calumet County	Jan. 1-June 30	2		
Chippewa County	Jan. 1-June 30	97	1	
Clark County	Jan. 1-June 30	20		
Columbia County	Jan. 1-Mar. 31	1		
Dane County	Apr. 1-June 30	6		
Douglas County	Jan. 1-June 30	11		
Dunn County	Jan. 1-June 30	39	2	
Fond du Lac County	Jan. 1-June 30	3		
Jackson County	Jan. 1-Mar. 31	1		
Juneau County	Jan. 1-June 30	42		
La Crosse County	Apr. 1-June 30	10		
La Crosse	June 13-July 10	2		
Manitowoc County	Jan. 1-June 30	41		
Marathon County	Jan. 1-June 30	2		
Milwaukee County	Apr. 1-June 30	24		
Milwaukee	June 21-27	2		
Oconto County	Jan. 1-June 30	25	1	
Oneida County	Apr. 1-June 30	1		
Outagamie County—				
Appleton	June 20-July 31	22		
Ozaukee County	Jan. 1-Mar. 31	13		
Pepin County	Jan. 1-Mar. 31	2		
Pierce County	Jan. 1-Mar. 31	4		
Polk County	Jan. 1-June 30	19		
St. Croix County	Jan. 1-June 30	65		
Sheboygan County	Jan. 1-June 30	46		
Taylor County	Jan. 1-Mar. 31	5		
Trempealeau County	Jan. 1-Mar. 31	3		
Vernon County	Jan. 1-Mar. 31	51		
Walworth County	Apr. 1-June 30	1		
Washburn County	Jan. 1-June 30	14		
Waukesha County	Jan. 1-Mar. 31	5		
Waupaca County	Jan. 1-June 30	27		
Waushara County	Jan. 1-Mar. 31	1		
Winnebago County	Jan. 1-June 30	17		
Wood County	Apr. 1-June 30	2		
Total for State		761	4	
Grand total for the United States		4,496	23	

Plague in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, August 2-October 1, 1909.

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
Alameda County—				
Sunol	Aug. 2-12	1	1	Case sickened July 27.
	Sept. 24	1		In vicinity of Sunol.

Weekly morbidity and mortality table, cities of the United States.

[For smallpox and plague, see special tables.]

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa	Sept. 18	38,973	14	1		8				1					
Ashtabula, Ohio	do	12,949	4												
Baltimore, Md	do	508,957	186	12	24	40	9	7		7	1	1		12	6
Bath, Me	do	10,477						1							
Bayonne, N. J	do	32,722			1			7		2		1			
Beaver Falls, N. Y	do	13,000	0					1							
Berkeley, Cal	Sept. 11	13,214	5							1				1	
Biddeford, Me	Sept. 18	16,145	11	1	1										
Biloxi, Miss	do	5,467		1	1										
Binghamton, N. Y	Sept. 11	38,647	19	1	2			4							1
Do	Sept. 18	38,647	11			4		1		1					
Boston, Mass	do	560,892	177	46	11	33	3	31		42	1	8	1		1
Bradford, Pa	do	15,029	3							3					
Bridgeport, Conn	Sept. 11	70,996	33		1	3	1	3	1	2					
Do	Sept. 18	70,996	26	1	2	3		6		2	1				
Brockton, Mass	do	40,063	9	4	1	5									
Butte, Mont	Sept. 16	30,470	9					1							
Cambridge, Mass	Sept. 18	91,886	28	7	5	3		1		3				1	
Camden, N. J	do	75,935	26			3		1		10	2				
Camden, S. C	do	2,441	0			1									
Carbondale, Pa	do	13,536	8												
Charlotte, N. C	Sept. 3	18,091	14		1	2	1	1							
Do	Sept. 10	18,091	9		1	4				3		1			
Do	Sept. 17	18,091	5		2	2	1			2					
Chelsea, Mass	Sept. 18	34,072	7	1	2			2		4					
Chicago, Ill	do	1,698,575	603	76	61	69	3	87	4	84	10	17		69	5
Chicopee, Mass	do	19,167	5		3										
Cincinnati, Ohio	Sept. 4	325,902	109	25	17	6		2		2		1			
Do	Sept. 18	325,902	101	20	13	4		5		7					
Columbus, Ga	Sept. 11	17,614	8								1				
Do	Sept. 18	17,614	10		1										
Columbus, Ohio	Sept. 11	125,560	51	2	6	9		3						1	
Concord, N. H	do	19,632	5							1					
Covington, Ky	Sept. 18	42,938	18		2		1			1	1				
Danville, Ill	do	16,520	10			3				2					
Dayton, Ohio	do	85,333	33		5	4		3		3					
Detroit, Mich	do	285,704	118					14	4	18	4				
Duluth, Minn	Sept. 17	80,000	20	1	2	1	1	3		27					
Dunkirk, N. Y	Sept. 4	11,616	4	1	1							1			
Do	Sept. 11	11,616	2	1											
Do	Sept. 18	11,616	5	1		1				1					
Elkhart, Ind	do	15,184	6	1	1										
Elmira, N. Y	do	35,672	18			5	1	1		2					
El Paso, Tex	Sept. 14	15,905	22	21	3	4									
Erie, Pa	Sept. 18	52,733	27	4	1	15	1			3		2			
Evansville, Ind	do	59,007	12	2	1	4		15		6	2				
Everett, Mass	do	24,336	7	1	1										
Fall River, Mass	do	104,863	52	6	6	5		4		1				4	2
Findlay, Ohio	do	17,613	7		2	2		1		4					
Galesburg, Ill	do	18,607	4					5							
Galveston, Tex	Sept. 17	37,789	2		1	9	1			1					
Grand Rapids, Mich	Sept. 18	87,565	22	3		5		6		1					
Greensboro, N. C	do	10,035	2		2					4					
Greenville, S. C	Sept. 11	11,860	3							1					
Do	Sept. 18	11,860	4			2									
Harrison, N. J	Sept. 18	10,596	5							3	1				
Hartford, Conn	Sept. 15	79,850	17	1		4		3	1	1					
Do	Sept. 12	79,850	27	2		2	1			4	1				
Haverhill, Mass	Sept. 18	37,175	19	4		3		2		7		1		2	
Houston, Tex	Sept. 11	44,633	16		6										
Hyde Park, Mass	Sept. 18	13,244	3												
Indianapolis, Ind	Sept. 12	169,164	59	10	11	21	2			1		1			
Do	Sept. 19	169,164	56	4	9	18		1		11	1	1		1	
Jacksonville, Fla	Sept. 18	28,429	21	1	2		1	1							
Jersey City, N. J	Sept. 5	206,433	69		5	2		11		7	1	1			
Do	Sept. 19	206,433	76		6	3		8		5		1			1
Johnstown, Pa	Sept. 18	10,130	20	5	1	2	1	1		5		2			
Kalamazoo, Mich	Sept. 11	24,404	11	1	1										
Do	Sept. 18	24,404	10			1									
Kansas City	Sept. 11	51,418	22		2	3	3			13					
Do	Sept. 18	51,418	12		1	6		1		7				1	
Kearney, N. J	Sept. 11	10,896	8	2											
Do	Sept. 18	10,896								2					

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Knoxville, Tenn	Sept. 18	32,637	13		2	1									
La Crosse, Wis	do	28,895	10		1			1		4					
La Fayette, Ind	Sept. 20	18,116	6			1	2								
Lancaster, Pa	Sept. 11	41,459	13	3		1									
Do	Sept. 18	41,459	9	2		5		1				1			
Lawrence, Mass	Sept. 11	62,559	34	2		1		3		4	1	2			
Lexington, Ky	Sept. 18	26,369	6							4					
Los Angeles, Cal	Sept. 11	102,479	60	14	17	7	2			8		4		3	
Lowell, Mass	Sept. 18	94,969	45	2	2			1	1	4	1				
Lynchburg, Va	do	18,891		1		5		2		1				2	
Lynn, Mass	Sept. 11	68,513	22		3	5		3		3					
Malden, Mass	Sept. 18	33,664	11	1	3	1		3							
Manitowoc, Wis	do	11,786	4	1		2		4							
Mansfield, Ohio	do	17,650				14	1								
Marlboro, Mass	Sept. 11	13,609	6	1						2	1				
Marinette, Wis	Sept. 18	16,195	4												
Massillon, Ohio	do	11,944	2			1		1							
Medford, Mass	do	18,244	5					2		2					
Melrose, Mass	Sept. 11	12,962	4	1				1							
Milwaukee, Wis	do	285,315	115	17	6	6	2	37	5	17	2	4	1	5	
Mobile, Ala	do	38,469	18		7										
Montclair, N. J	Sept. 18	13,962	4		1	3									
Montgomery, Ala	Sept. 17	30,346	12			2									
Mount Vernon, N. Y.	Sept. 18	21,228	7		1	5				1					
Nanticoke, Pa	Sept. 19	12,616	4			1				1					
Nashville, Tenn	Sept. 18	80,865		6	2	9	1	4	1	4					
Nebraska City, Nebr.	do	7,200	1												
Newark, N. J	do	246,070	100	32	13	9		15	1	8	4		2		2
New Bedford, Mass	do	63,442	23	6	1	3	1	9		1					
Newburyport, Mass	do	14,478	6												
New Orleans, La	do	278,104	121	38	16	14	1	3	1	9	1				1
Newport, Ky	do	28,301	9		2					2					
Newton, Mass	do	33,587		2	2					1		1		2	
New York, N. Y	do	3,437,202	1,284	501	132	276	24	58	4	206	16	82	7	52	17
Niagara Falls, N. Y	do	19,457	7			7		5							
North Adams, Mass.	Sept. 18	24,200	5	1		6						1			
Northampton, Mass	do	18,643	5	1						3					
Oklahoma City, Okla.	Sept. 4	43,500	22			2									
Do	Sept. 11	43,500	12		1	4									
Do	Sept. 18	43,500	7			3		1							
Orange, N. J	do	24,141	6	1		2		4		1					
Ottumwa, Iowa	do	18,197	6												
Peekskill, N. Y	do	10,358	3					2							
Pittsburg, Pa	Sept. 11	321,616	174	34	17	18	5	17	2	12	2	4	1	11	2
Do	Sept. 18	321,616	158	31	3	31	2	25	2	10	2	2		3	2
Pittsfield, Mass	do	21,766	10	2	1	1	1	1							
Philadelphia, Pa	Aug. 28	1,293,697	408	78	57	55	5	20		42	8	11	1	8	2
Do	Sept. 4	1,293,697	372	60	40	45	2	28		48	3	8	1	23	3
Plainfield, N. J	Sept. 18	15,389	6	2		1									
Plymouth, Pa	Sept. 4	13,649		2											
Do	Sept. 11	13,649		3											
Portland, Me	do	50,145	27		3	3	1	3							
Do	Sept. 18	50,145	19		2	6		1		2					
Portsmouth, Va	Sept. 14	17,427	6			11		2	1	2					
Do	Sept. 21	17,427	4					3		2					
Providence, R. I	Sept. 18	175,197	68	9	10	7	2	7		11		1			1
Reading, Pa	Sept. 20	78,961	26	1	1	17	2	4		4					
Rock Island, Ill	Sept. 18	19,493	8												
Saginaw, Mich	Aug. 28	42,345	14							2					
Do	Sept. 4	42,345	17	1	1			1		1					
Do	Sept. 11	42,345	8			1						1			
St. Louis, Mo	Sept. 18	575,238	191	37	13	24	9	15		27		5		9	1
San Jose, Cal	Sept. 11	21,500	8												
Schenectady, N. Y	do	31,682	18		1	1	1	1							
Somerville, Mass	Sept. 18	61,643	21	2	2	1		4		7					
South Bend, Ind	do	35,999	9	3	1	2		1		2					
South Bethlehem, Pa.	do	13,241	3	2				1		1		1			
Springfield, Mass	Sept. 11	62,059	12	2	2			2		4				3	
Do	Sept. 18	62,059	23	6	3	2		1		6			1		
Springfield, Ohio	Sept. 11	38,253	11	3		3				1					
Do	Sept. 18	38,253	11	4	2	2		1							
Steelton, Pa	do	12,068			1	1						2			
Superior, Wis	do	31,091	3					3							
Tacoma, Wash	Sept. 12	37,714	23		2	10	2	3		3	1				
Taunton, Mass	Sept. 18	31,036	10			5		1							

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Terre Haute, Ind.	Sept. 18	36,673	12	....	1	2	....	1	....	3	....	1	....	....	....
Titusville, Pa.	do	8,244	3	....	....	2	....	1	....	....	....	....	....	....	....
Trenton, N. J.	do	73,307	....	7	6	1	1	2	....	....	....	....	....	....	....
Waltham, Mass.	do	23,481	12	....	1	4	1	1	....	2	....	....	....	....	....
Washington, D. C.	Sept. 11	278,718	116	20	17	27	7	11	....	2	....	1	....	15	1
Do.	Sept. 18	278,718	111	14	19	27	....	9	....	8	1	....	....	12	1
Weymouth, Mass.	do	11,324	2	1	....	....	....	....	....	....	....	....	....	....	....
Wheeling, W. Va.	Sept. 11	38,878	14	2	1	2	1	2	....	1	....	1	....	....	....
Wichita, Kans.	do	24,671	18	1	1	6	3	1	....	....	....	....	....	....	....
Do.	Sept. 18	24,671	11	....	....	7	1	2	....	....	....	....	....	....	....
Wilkes-Barre, Pa.	Sept. 17	51,721	24	7	2	4	....	1	....	3	....	2	....	3	....
Wilkinsburg, Pa.	Sept. 14	13,000	2	....	....	1	....	....	....	....	....	....	....	1	....
Do.	Sept. 21	13,000	4	....	....	3	....	....	....	....	....	....	....	....	....
Williamsport, Pa.	Sept. 18	28,757	5	1	....	1	....	....	....	1	....	....	....	....	....
Wilmington, Del.	do	76,508	21	....	1	....	....	....	....	....	....	....	....	....	....
Woburn, Mass.	do	14,254	7	3	....	1	....	....	....	....	....	....	....	....	....
Worcester, Mass.	Sept. 11	118,421	40	4	1	8	2	10	....	1	....	1	....	....	1
Yonkers, N. Y.	Sept. 16	47,931	26	12	1	2	....	4	....	3	....	....	....	....	....
York, Pa.	Sept. 11	33,708	....	....	....	2	....	....	....	2	....	2	....	....	....
Do.	Sept. 18	33,708	....	1	....	....	....	....	....	1	....	1	....	....	....
Zanesville, Ohio.	do	23,538	5	....	....	9	....	....	....	....	....	....	....	....	....

FOREIGN AND INSULAR.

AUSTRALIA.

Quarantine law declared in force.

The following information is received from Consul Jewell at Melbourne under date of July 14:

By proclamation of the governor-general of the Commonwealth of Australia dated May 26, 1909, the quarantine act of March, 1908, was made effective from July 1, 1909. The act provides for measures against the ingress and egress from vessels of rats and mice; the destruction of rats, mice, and other vermin; precautions against the introduction of vermin from infected places; examination of crews and passengers to ascertain present and previous condition of health and investigation of the sanitary conditions under which the vessel has made the current voyage, and special measures to be applied to vessels arriving from plague-infected ports.

BARBADOS.

Report from Bridgetown—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Urquhart reports, September 11:

Week ended September 11. Bills of health issued to 7 vessels, having a total of 561 members of crews and 52 passengers. One vessel was fumigated. Sanitary condition of vessels, cargoes, crews, and passengers good. Sanitary condition of port and island good. No quarantinable disease was reported.

BRAZIL.

Report from Rio de Janeiro—Inspection of vessels—Mortality—Smallpox.

Acting Assistant Surgeon Stewart reports, August 21:

Week ended August 21. Vessels inspected and issued bills of health: August 16 the Norwegian bark *Miranda*, for Mobile, in stone and sand ballast, with no passengers, and with 11 new members of crew signed on in this port; on the same date the Norwegian bark *Rona*, for Gulfport, in stone and sand ballast, with no passengers, and with 2 new members of crew signed on in this port; August 18 the British steamship *Voltaire*, for New York, with cargo of coffee, and 12 cabin and 9 steerage passengers from this port, and with no change in the crew personnel; on the same date the British steamship *Herronspool*, for Tampa, in water ballast, with no passengers, and no change in the crew personnel; August 19 the German steamship *Corrientes*, for New York, with coffee cargo, 4 cabin and 6

steerage passengers, and no change in the crew personnel; August 20 the British steamship *Black Prince*, for New Orleans, with no passengers, and no change in the crew personnel, and with cargo of coffee; August 21 the British steamship *Craigearn*, for Pensacola, in water ballast, with no passengers, and with no change in the crew personnel, and on the same date the British steamship *Malinhead*, for Galveston, in water ballast, with no passengers, and no change in the crew personnel.

Week ended August 28. August 23 the British steamship *Tocantins*, for New Orleans, with coffee cargo, no passengers, and no change in the crew personnel; August 24 the British steamship *Susquehanna*, for New Orleans, with coffee cargo, with no passengers and with no change in the crew personnel; August 25, the British steamship *Eskside*, for New York, in water ballast, with no passengers, and with no change in the crew personnel and August 28 the British steamship *Celtic Princess*, for New Orleans, with coffee cargo, with no passengers, and with no change in the crew personnel. No other vessels left this port for the United States during the period covered by these reports.

Mortality—Smallpox.—Week ended August 22. Estimated population, 811,443. Census population, 1907, 628,675. Total deaths, 241. No deaths nor cases reported due to yellow fever or plague. Smallpox caused no deaths, but there were 3 new cases reported. At the close of the week there were in the Hospital São Sabastião 20 cases of smallpox under treatment.

BRITISH HONDURAS.

Reports from Belize, fruit port.

Acting Assistant Surgeon Mengis reports:

Week ended September 9. Present officially estimated population, 10,000. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Sept. 3	Belize	Mobile	18	2	0
4	Belvernon	New Orleans	23	0	0
6	Moldegaard	New York	22	0	0
7	Heredia	New Orleans	80	5	6
9	José	New York via Central American ports.	32	0	12

Week ended September 16. General sanitary condition of this port and the surrounding country during the week, very good.

Bills of health issued to the following-named vessels:

Date.	Vessel	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Sept. 11	Dictator	New Orleans	25	0	3
14	Cartago	do	77	5	4

CHINA.

Report from Amoy—Inspection of vessels—Cholera and plague—Quarantine at Hongkong against Amoy removed.

Passed Assistant Surgeon Foster reports, August 16:

Week ended August 14. One bill of health issued. August 10 the British steamship *Taisang* with 68 in the crew and 20 cabin and 41 steerage passengers for Manila was granted an original bill of health. One Chinese cabin passenger was rejected for trachoma. The crew and steerage passengers were bathed and their clothing was disinfected by steam. All on board were inspected prior to sailing. Manifests were viséed for 1,287 pieces of freight.

During the week ended August 14 there were 52 deaths from plague and 12 from cholera in Amoy.

The government of Hongkong has removed the quarantine on vessels arriving from Amoy.

Report from Chefoo—Cholera.

Consul Fowler reports, August 28:

Cholera is prevalent. There have been 5 deaths among the European population.

Reports from Hongkong—Quarantine restrictions—Plague—Examination of emigrants—Inspection and fumigation of vessels.

Passed Assistant Surgeon McKeon reports, August 10 and 17:

Weeks ended August 7 and 14. Restrictions enforced by Hongkong remain as reported July 17. Restrictions enforced against Hongkong remain as reported July 17.

Quarantinable disease.—Week ended August 7. Plague 3 cases, 3 deaths.

Aliens for Honolulu and Pacific coast ports.—Week ended August 7. Examined 33, rejected 5. Week ended August 14. Examined 0.

Aliens for Philippine Islands.—Week ended August 7. Examined 11, rejected 2. Week ended August 14. Examined 8, rejected 6.

Inspection of vessels.—Week ended August 7, 9; week ended August 14, 10. Fumigated to destroy rats, week ended August 14, 4.

COSTA RICA.

Report from Limon, fruit port.

Acting Assistant Surgeon Harris reports:

Week ended September 6. Estimated population 8,000. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Sept. 1	Atenas	86	4	37	0
2	Helen	22	0	0	0
3	Karen	26	1 crew.	0	0
4	Heredia	80	a 7	3	0
4	Origen	32	b 8	0	0
4	Esparta	44	17	0	0
6	Grib	19	0	0	0
6	Sibiria	60	47	0	

a 5 to Barrios; 2 to New Orleans. b Shipwrecked crew.

CUBA.

Report from Cienfuegos—Inspection of vessels—Sanitary conditions.

Acting Assistant Surgeon Suarez reports, September 13:

Week ended September 11.

Vessels inspected	3
Bills of health issued	3
Members of crews inspected	39

The sanitary condition of the city and port continues satisfactory; no quarantinable disease reported.

Report from Habana—Inspection of vessels—Water-deposit inspection—Stegomyia larvæ found.

Passed Assistant Surgeon Amesse reports, September 20:

Week ended September 18.

Bills of health issued	19
Vessels inspected	15
Members of crews of outgoing vessels inspected	734
Passengers of outgoing vessels inspected	443

Sanitary conditions continue fair. For the 20-day period ended September 10, there were reported by the local inspectors 122 deposits containing larvæ, of which 44 were collections of *Stegomyia*.

Report from Matanzas—Inspection of vessels—Vaccination.

Acting Assistant Surgeon Nuñez reports, September 20:

Week ended September 18. Bills of health granted to 2 vessels clearing for United States ports; 2 certificates of vaccination issued, and 7 first-class passengers sailing from this port to New Orleans direct were inspected and passed.

No quarantinable diseases reported in this district.

Report from Santiago—Inspection of vessels—House and water-deposit inspection.

Acting Assistant Surgeon Wilson reports, September 15:

Week ended September 11. Bills of health issued to 5 vessels bound for the United States and its dependencies. No vessel disinfected. No quarantinable disease reported.

The sanitary department reports 2,995 inspections of houses and the finding of larvæ in 7 water deposits.

GREAT BRITAIN.

Report from Liverpool—Measures against the introduction of cholera from Rotterdam.

Consul Washington reports, August 31:

The following statement from the Liverpool health authorities was received in response to an inquiry from this office as to what measures were being taken at Liverpool with regard to the cholera outbreak at Rotterdam. The inquiry was made on account of the number of third-class passengers from Rotterdam proceeding to Liverpool to join vessels bound for the United States. The precautions mentioned will be continued until Rotterdam is declared free from cholera.

The master of a vessel arriving from Rotterdam is required to give notice of the fact to the port sanitary authority, and a medical examination of passengers and crew is made. The names and addresses of passengers and crew are taken, and they are daily visited at their homes. Any case of sickness that may arise is immediately reported, and a doctor of the official staff is sent to examine and report on the case.

When a passenger, or a member of the crew, on an incoming vessel from Rotterdam desires to proceed out of Liverpool his name and address are taken and reported to the medical officer of health of the town or district to which he intends to proceed. In like manner, persons arriving at other ports and proceeding to Liverpool are reported to the medical officer of health, who treats them in the same way as though they had arrived direct at Liverpool.

GUATEMALA.

Report from Puerto Barrios, fruit port—Stegomyia calopus present.

Acting Assistant Surgeon Ames reports:

Week ended September 11. Present officially estimated population, 350. General sanitary condition of this port and the surrounding country during the week, good. *Stegomyia calopus* present.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Sept. 6	Heredia	New Orleans via Belize	80	1	3
9	Dictator	do	25	0	3
10	Jose	New York via Republic of Panama.	26	2	4

Temperature taken of all persons on steamships *Heredia* and *Dictator* day of sailing.

HONDURAS.

Reports from Puerto Cortez, fruit port.

Acting Assistant Surgeon Wailes reports as follows:

Week ended September 8. Present officially estimated population, about 2,500. General sanitary condition of this port and the surrounding country, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Sept. 2	Utstein	17	0	0	0
8	Harald	20	0	0	0
8	Mercator	18	4	0	0
8	Dictator	20	2	0	0

Week ended September 16. General sanitary condition of this port and the surrounding country, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected
Sept. 15	Harald	18	7	0	0
16	Belvernon	19	1	0	0
15	Utstein	17	2	0	0

Reports from Tela, fruit port.

Acting Assistant Surgeon Roe reports:

Week ended September 4. Present officially estimated population, about 1,500. General sanitary condition of this port and the surrounding country during the week, good.

Bill of health issued to the following-named vessel:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Aug. 29	Viator	New Orleans	17	0	0

Week ended September 11. General sanitary condition of this port and the surrounding country during the week, good.

Bill of health issued to the following-named vessel:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Sept. 11	Colombia	Mobile	18	1	0

INDIA.

Report from Calcutta—Transactions of service—Cholera, plague, and smallpox—Summary of plague in Bengal and India.

Acting Assistant Surgeon Allan reports, August 19:

Week ended August 14. Bills of health issued to the steamship *Drumgeith* bound for Philadelphia and New York with a total crew of 58 and to the steamship *Barenfels* bound for Boston and New York with a total crew of 71.

Week ended August 21. Bills of health issued to the steamship *Ganges*, bound for Demerara and Habana, with a total crew of 86 and 1 European and 855 native passengers, and to the steamship *Clan MacPherson*, bound for Boston and New York, with a total crew of 63.

The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and Asiatics' effects disinfected.

During the week ended August 14 there were 7 deaths from cholera and 18 from plague in Calcutta; in Bengal, 24 cases of plague, and 30 deaths; in India, 1,659 cases of plague, with 1,251 deaths.

ITALY.

Report from Naples—Inspection of vessels—Examination of emigrants—Smallpox in Naples—Smallpox case among passengers for steamship Taormina.

Surgeon Geddings reports, September 6:

Vessels inspected at Naples and Palermo week ended September 4.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Sept. 1	Venezia	New York	307	60	480
1	Europa	do	784	80	770
1	Ultonia	do			
2	Duca degli Abruzzi	do	782	150	920
2	Principe di Piemonte	do	450	60	560
3	Berlin	do	673	110	950
4	Taormina	Philadelphia	504	130	750
4	Cretic	New York	924	180	970
	Total		4,424	770	5,380

PALERMO.

Sept. 3	Principe di Piemonte	New York	222	300	75

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Smallpox.	Other causes.	Total.
Sept. 1	Venezia	10	1	2				13
1	Europa	15		10			5	30
1	Ultonia							
2	Duca degli Abruzzi	12	2	3			3	20
2	Principe di Piemonte	17	1	6			10	34
3	Berlin	13	2	8	1		4	28
4	Taormina	9	1	1	1	1	6	19
4	Cretic	15	3	5			13	36
	Total	91	10	35	2	1	41	180

PALERMO.

Sept. 3	Principe di Piemonte	15		9			2	26

Smallpox in Naples.—During the week ended September 5, 9 cases of smallpox with 5 deaths were reported at the health office of the city of Naples.

A case of smallpox was discovered at the examination of the steerage passengers for the steamer *Taormina* September 4. The patient was transferred to the Cotugno hospital for contagious diseases. Four contacts were returned to their boarding house and placed under observation. The contacts were vaccinated and their quarters disinfected.

JAPAN.

Reports from Yokohama—Inspection of vessels—Examination of emigrants, month of August, 1909—Summary of plague—Plague rats at Kobe.

Acting Assistant Surgeon Worden reports, September 1:

Week ended August 28. Bills of health issued to 6 vessels.

Summary of examination of emigrants and inspection of vessels, month of August, 1909.

During the month of August 133 alien passengers from this port were examined, of whom 4 were refused, 31 held for diagnosis, and 98 passed; 134 steerage passengers and 8 members of crews were bathed, and 263 pieces of baggage were disinfected; 85 persons were certified from Yokohama. Three sailing vessels were inspected, with an aggregate of 566 saloon and 2,089 steerage passengers, and 2,592 members of crews.

Plague.—From April 30 to July 12 there were 28 cases of bubonic plague in this port, of which 23 were fatal. Fifteen cases were of persons suffering from the disease in their own houses, 1 of whom died just prior to removal to hospital, and 8 were in hospital

A plague-infected rat was found in the Kobe municipal office a few days ago, and one in the compound of the Hyogo prefectural office, Kobe, August 24.

Notice has been sent out by the authorities that a general cleaning will be undertaken throughout all Yokohama in September under the charge of the sanitary bureau.

The sanitary condition of Yokohama is good.

Doctor Worden further reports:

Summary of dysentery, enteric fever, plague, and smallpox in Japan from January to July 10, 1909.

Dysentery.—From January of this year to July 10 there were 1,398 cases and 220 deaths. Most of the cases are reported from Aichi-ken, where there were 165 cases, with 22 deaths; 33 cases occurred in the cities and 132 cases in the rural districts. Kumamoto-ken comes next in number of cases, viz, 119 cases, with 18 deaths; 3 in the city and 116 in the rural districts. Cases were reported from all the prefectures except Saga and Miyagi. During the same period in 1908, January to July 10, 6,596 cases, with 1,565 deaths, were reported. A great decrease is thus shown over last year.

Dysentery is prevailing at present in Tokushima, Shikoku Island.

Enteric fever.—During the same period, January to July 10, of the current year 6,441 cases, with 1,466 deaths, were reported in all Japan. Tokyo had 530 cases in the city and 131 in the suburbs, with 91 deaths. In Fukuoka-ken 59 cases were reported in the cities and 808 in the rural districts, aggregating 367 in the prefecture, with 76 deaths. The smallest number, only 2 cases, with 1 death, was reported from Okinawa-ken.

Plague.—The last case of plague was reported from the province of Iyo, Shikoku Island, August 24. The governor of the prefecture has informed the home department that this case is determined as positive upon bacteriological proof. He also reports detection of some infected rats. In Formosa 1,016 cases have been reported during this year.

Smallpox.—Ninety-nine cases, with 25 deaths, were reported from all Japan. Of these 44 cases, with 12 deaths, were in Okinawa-ken. During the same period of last year there were 18,043 cases, with 5,982 deaths, reported from all Japan.

Examination of emigrants.

Number of emigrants per steamship *Nikko Maru*, for Manila, August 21: Examined 22, rejected 1, held 7.

Per steamship *Asia*, for Honolulu and San Francisco, August 28: For Honolulu, held 7; for San Francisco, held 2.

Per steamship *Kaga Maru*, September 1, for Seattle, Wash.: Rejected 2; held for observation, 4.

Report from Kobe—Inspection of vessels—Examination of emigrants—Plague—Cholera at Amagasaki.

Acting Assistant Surgeon Knight reports, August 25:

Week ended August 21. Supplemental bills of health granted to 2 steamships.

There were inspected 657 steerage passengers, and 8 steerage passengers were bathed and disinfected; their effects were disinfected

by steam. The number of pieces of baggage steamed was 20 and bedding 16. Manifests were viséed for 20,917 pieces of freight, amounting to 1,620 tons.

Emigrants examined: Per steamship *Chiyo Maru* for Honolulu, passed 8, recommended for rejection 38; for San Francisco, passed 0, recommended for rejection 0.

During the week 66 cases of human hair and 15 cases chicken feathers were disinfected with formalin.

The official return of infectious diseases for the week shows 1 case with 1 death of plague in Kobe.

At Amagasaki 4 cases of cholera were reported. The city of Amagasaki is situated about 14 miles east of Kobe.

MEXICO.

Report from Coatzacoalcos—Inspection and fumigation of vessels.

Acting Assistant Surgeon Thompson reports, September 17:

Week ended September 15. Three vessels inspected. Of this number 1 was fumigated. No illness occurred on any of these vessels while in port.

Report from Progreso—Inspection and fumigation of vessels—Yellow fever at Merida.

Acting Assistant Surgeon Stowe reports, September 18:

Week ended September 16.

Vessels dispatched	3
Vessels fumigated	1
Members of crews	129
Passengers from Progreso	28

Sanitary conditions showed no important change at Progreso, but at Merida 1 new case of yellow fever was reported.

Report from Tampico—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Stowe reports, September 16:

Week ended September 15.

Vessels inspected and passed	3
Bills of health issued	3
Members of crews of outgoing vessels inspected	83
Passengers of outgoing vessels inspected	0
Vessels fumigated prior to sailing	1

No case of quarantinable disease occurred during the week. Sanitary condition of port and surrounding country, good.

Report from Veracruz—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Carter reports, September 13:

Week ended September 12.

Bills of health issued	8
Vessels fumigated	6
Vessels inspected	2
Passengers inspected	120
Members of crews inspected	431

The sanitary conditions of Veracruz remain good. No contagious disease was reported during the week.

Fatal case of yellow fever from steamship Mexican from Progreso.

Doctor Carter further reports:

September 24. One yellow fever death reported to-day verified by autopsy. Arrived last night on steamship *Mexican* from Progreso. All precautions taken.

NETHERLANDS.

Report from Rotterdam—Inspection of vessels—Status of cholera in Rotterdam—Cholera carriers.

Assistant Surgeon Wollenberg reports, September 11:

Week ended September 11. Bills of health issued to the following-named vessels: September 6, steamship *Euxinia*, with cargo for Philadelphia; September 8, steamship *Amsteldyk*, with cargo for Baltimore; September 11, steamship *Nieuw Amsterdam*, with passengers and cargo for New York; September 11, steamship *Niagara*, in water ballast for New York.

No emigrants from Rotterdam have embarked. All Russians have been under five days' observation. All emigrants' effects disinfected. Crews have been inspected on deck, after being held on board while vessels were in port. No ballast water taken on at Rotterdam.

STATUS OF CHOLERA.

ROTTERDAM.—The city is to-day declared free of cholera. All patients have been discharged. During the week one death occurred among cases previously reported. During the outbreak, since August 20, there has been a total of 34 cases, with 15 deaths.

As previously reported, of the 188 contacts held under observation during the last 3 weeks, 8 were found to be "bacillus carriers." Though 2 became slightly ill, 6 remained in good health; in all, however, there were a few more stools than normally. These persons harbored the cholera-vibrio for periods varying from 5 to 12 days after coming under observation.

In view of the discovery of "bacillus carriers" here, it is believed to be probable that the disease was brought to Rotterdam by a similarly affected person from one of the several Russian ships that have recently been in port, since the voyage from Russia is made in from 3 to 5 days. Various means have been suggested for the prevention of infection in this manner, but as yet nothing practical has been determined.

NICARAGUA.

Report from Bluefields, fruit port.

Acting Assistant Surgeon Layton reports:

Week ended September 9. Present officially estimated population, 2,500. General sanitary condition of this port and the surrounding country during the week, good.

Original bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Sept. 5	Marietta di Georgio	New Orleans	19	15	0
6	Tacoma	Limon	293	0	0

Temperature of all on board the *Marietta di Georgio* taken day of sailing.

RUSSIA.

Report from Libau—Status of cholera in Russia—Examination of emigrants.

Acting Assistant Surgeon De Forest reports, September 4:
Week ended September 3.

Cholera in Russia.

Date.	Place.	Cases.	Deaths.
Aug. 28–Sept. 3	St. Petersburg	171	82
	Riga	33	15
	Jaroslav	26	12
	Vitebsk (since beginning of epidemic 508 cases, 200 deaths)	15	4
	Rubinsk	23	14
	Polotzk	14	1
	Kostroma	6	3
	Government of Novgarod	30	11
	Government of Jaroslav since beginning of epidemic	238	123
	Tver—District Novytorshok	2	.....
	Tver—District Korlscheva	13	.....
	Poltava—District Chorol	11	8
	Poltava—District Gadjatsch	3	2
	Krementschug	8	4
	Archangel	9	5
	Alexandrovsk	1	1
	Katerinenburg	2	.....
	Kem	5	4
	Vologda	11	9
	Novoalexandrovsk	5	2
	Hungerburg	3	1
	Mohilev	4	3
	Perm	3	2
	Kräusholm	2	2
	Joachimstal	3	2
	Romanovo Borrissoglebsk	4	2
	Merzendorf	2	2
	Drissa	14	6
	Cronstadt	1	.....
	Courland—		
	Mitau	13	9
	Bauskesch	1	.....
	Tukum	3	2
	Friedrichstadt	4	1
	Jacobstadt	5	.....
	Illuxt	70	13

The steamship *Estonia* sailed from Libau August 31 with 719 passengers and a crew of 93. All passengers and members of crew had been in Libau for 5 days. Baggage disinfected, 268 pieces. No quarantinable diseases exist in Libau.

Report from St. Petersburg—Outbreak of pneumonic plague in the Ural district.

The following is received from Minister Riddle through the Department of State:

Several cases of pneumonic plague occurred in the month of July in the village of Iltoc, at a distance of 140 versts from the city of Ouralsk, with a total of 22 deaths.

The necessary measures of disinfection and isolation have been taken by the competent medical authorities, and since July 31 there have been no further cases.

RUSSIA IN ASIA.

Report from Vladivostok—Cholera.

The following is received from the Department of State, under date of September 23:

American consul at Vladivostok cables "Cholera."

ST. LUCIA ISLAND.

Reports from Castries—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Maylie reports, August 23 and 30 and September 6:

Week ended August 21. Vessels inspected 7, fumigated 6.
Week ended August 28. Vessels inspected 10, fumigated 8.
Week ended September 4. Vessels inspected 13, fumigated 11.

SUMATRA.

Epidemic cholera in the district of Djambi.

Consul Rairden, at Batavia, Java, reports, August 9:

Cholera has been officially declared epidemic in the district of Djambi, East Sumatra, there having been 170 cases and 78 deaths during the last 15 days of July. This disease is confined to the natives, no cases having been reported among the Europeans.

ZANZIBAR.

Report from Zanzibar—Examination of rats for plague infection.

Consul Garrels reports, August 21 and 22:

Week ended August 14. Number of rats received and examined, 1,236; no infection found. Week ended August 31. Rats received and examined, 1,167; no infection found.

FOREIGN AND INSULAR STATISTICAL REPORTS OF COUNTRIES AND CITIES—UNTABULATED.

AFRICA—*Sierra Leone.*—Month of June, 1909. Estimated population, 40,000. Total number of deaths, 106.

Month of July, 1909. Total number of deaths, 109. No deaths from contagious diseases.

ALGERIA—*Algiers.*—Month of August, 1909. Estimated population, 155,000. Total number of deaths, 272, including enteric fever 3, smallpox 4, typhus fever 5 (imported from country districts), whooping cough 1, and 60 from tuberculosis.

Bona.—Month of August, 1909. Estimated population, 42,000. Total number of deaths, 98, including enteric fever 1, scarlet fever 1, smallpox 8, typhus fever 3, and 12 from tuberculosis.

ARGENTINA—*Buenos Aires.*—Month of June, 1909. Estimated population, 1,204,007. Total number of deaths, 1,627, including diphtheria 4, enteric fever 17, measles 2, scarlet fever 6, smallpox 15, whooping cough 2, and 154 from tuberculosis.

AUSTRALIA.—*State of South Australia.*—Eight weeks ended July 24, 1909. Estimated population, 394,692. Total number of deaths, 567, including diphtheria 1, enteric fever 6, whooping cough 3, plague 1, and 55 from tuberculosis.

Adelaide.—Eight weeks ended July 24, 1909. Estimated population, 40,185. Total number of deaths not reported. One death from enteric fever, 1 from plague, and 14 deaths from tuberculosis reported.

State of Victoria.—Four weeks ended June 30, 1909. Estimated population, 1,273,313. Total number of deaths not reported. Three deaths from diphtheria, 12 from enteric fever, and 7 from scarlet fever reported.

Four weeks ended July 28, 1909. Nine deaths from diphtheria, 2 from enteric fever, and 4 from scarlet fever reported.

Melbourne.—Six weeks ended June 29, 1909. Estimated population, 549,200. Total number of deaths not reported. Two deaths from diphtheria, 2 from enteric fever, and 4 from scarlet fever reported.

Four weeks ended July 28, 1909. Seven deaths from diphtheria, 1 from enteric fever, and 2 from scarlet fever reported.

CANADA—*Yarmouth.*—Month of August, 1909. Estimated population, 6,700. Total number of deaths, 6. No contagious diseases.

CUBA—*Matanzas.*—Twenty days ended September 10, 1909. Estimated population, 36,009. Total number of deaths, 39, including measles 1 and 10 from tuberculosis.

Sagua la Grande.—Month of August, 1909. Estimated population, 28,030. Total number of deaths, 57. No contagious diseases reported.

DUTCH GUIANA—*Paramaribo.*—Month of August, 1909. Estimated population, 34,962. Total number of deaths, 107. No contagious diseases reported.

FORMOSA.—Two weeks ended August 7, 1909. Estimated population, 3,108,723. Total number of deaths reported, 12, including 8 from enteric fever.

FRANCE—*Calais.*—Month of August, 1909. Estimated population, 80,000. Total number of deaths, 97, including 22 from tuberculosis.

Marseille.—Month of August, 1909. Estimated population, 517,-498. Total number of deaths, 870, including diphtheria 7, enteric fever 38, measles 13, scarlet fever 2, smallpox 1, whooping cough 3, and 103 from tuberculosis.

St. Etienne.—Two weeks ended August 31, 1909. Estimated population, 150,000. Total number of deaths, 119, including enteric fever 1 and 16 from tuberculosis.

GREAT BRITAIN—*England and Wales.*—The deaths registered in 76 great towns in England and Wales during the week ended August 28, 1909, correspond to an annual rate of 12.9 per 1,000 population, which is estimated at 16,445,281.

London.—One thousand one hundred and fifty-three deaths were registered during the week, including measles 12, scarlet fever 6, diphtheria 5, whooping cough 15, tuberculosis 158, enteric fever 1, and 159 from diarrhea. The deaths from all causes correspond to an annual rate of 12.4 per 1,000. In Greater London 1,596 deaths were registered. In the "outer ring" the deaths included 5 from measles, 1 from scarlet fever, 7 from diphtheria, and 4 from whooping cough.

Ireland.—The average annual death rate represented by the deaths registered during the week ended August 28, 1909, in the 21 principal town districts of Ireland was 18.1 per 1,000 of the population, which is estimated at 1,142,308. The lowest rate was recorded in Wexford, viz, 4.7, and the highest in Clonmel, viz, 25.6 per 1,000.

Scotland.—The deaths registered in 8 principal towns during the week ended August 28, 1909, correspond to an annual rate of 12.7 per 1,000 of the population, which is estimated at 1,839,038. The highest rate of mortality was recorded in Dundee, viz, 20.3, and the lowest in Leith and Perth, viz, 8.5 per 1,000. The aggregate number of deaths registered from all causes was 454, including diphtheria 2, enteric fever 1, measles 3, scarlet fever 3, and 7 from whooping cough.

Malta.—Five weeks ended August 28, 1909. Estimated population, 212,888. Total number of deaths, 510, including enteric fever 6, whooping cough 4, and 21 from tuberculosis.

MAURITIUS—*Port Louis.*—Month of June, 1909. Estimated population, 374,237. Total number of deaths 1,053, including diphtheria 2, enteric fever 5, measles 1, plague 3, and 56 from tuberculosis.

RUSSIA—*Libau.*—Period from July 14 to August 13, 1909. Estimated population, 10,000. Total number of deaths not reported.

One death from diphtheria, 2 deaths from measles, 8 deaths from scarlet fever, and 1 death from whooping cough reported.

SPAIN—*Madrid.*—Month of August, 1909. Estimated population, 595,586. Total number of deaths 1,262, including diphtheria 9, enteric fever 13, measles 5, scarlet fever 4, smallpox 114, typhus fever 50, and 145 from tuberculosis.

WEST INDIES—*Curaçao.*—Three weeks ended September 10, 1909. Estimated population, 30,000. Total number of deaths, 29. No contagious diseases.

St. Thomas.—Three weeks ended July 30, 1909. Estimated population, 11,012. Total number of deaths, 20. No deaths from contagious diseases. Four weeks ended August 31, 1909. Total number of deaths, 13. No deaths from contagious diseases.

ST. VINCENT ISLAND.—Seven weeks ended August 28, 1909. Estimated population, 51,779. Number of deaths not reported. No contagious diseases reported.

TURKS ISLANDS.—Seven weeks ended September 11, 1909. Estimated population, 1,800. Total number of deaths, 4. No contagious diseases.

Cockburn Harbor.—Four weeks ended September 11, 1909. Estimated population, 800. One death. No contagious diseases.

Salt Cay.—Four weeks ended September 11, 1909. Estimated population, 450. One death. No contagious diseases.

VENEZUELA—*State of Tachira.*—Month of April, 1909. Census population, 105,866. Total number of deaths, 300, including enteric fever 6, whooping cough 20, and 21 from tuberculosis. Month of May, 1909. Total number of deaths 298, including enteric fever 5, whooping cough 29, and 18 from tuberculosis.

Cholera, yellow fever, plague, and smallpox, from June 26 to October 1, 1909.

[Reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls, through the Department of State and from other sources.]

[For reports received from December 25, 1908, to June 25, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy	June 13–Aug. 14		122	
Chefoo	Aug. 28		5	Among Europeans.
Hankow	July 17–Aug. 9	5	3	
Kang Thau	Apr. 1–June 30	4	2	
Shanghai	July 26–31	3	1	On s. s. Hudson; Aug. 7, still present among foreigners and natives.
Swatow	May 11–29			Present in vicinity.
Germany:				
Konigsberg	July 21		1	
India:				
Bombay	May 30–Aug. 24		301	
Calcutta	May 16–Aug. 14		402	
Madras	May 29–Aug. 13		6	
Negapatam	May 8–14		4	
Rangoon	May 16–Aug. 14		39	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Saigon	May 9-July 24	23	17	
Japan:				
Amagasaki	Aug. 14-21	4		
Kagawa, prefecture	Aug. 8-14	7		
Kobe	Sept. 13			Present, and July 31, 1 case in vicinity.
Java:				
Batavia	Sept. 21			Present.
Manchuria:				
Dalny	Aug. 11	1		On s. s. Kobe Maru.
Netherlands, The	Aug. 20-Sept. 4			5 deaths among boatmen from Rotterdam.
Amsterdam	Sept. 10	1		
Breda	Aug. 30-Sept. 4	1		
Dirksland	Sept. 10	1		
Dordrecht	Aug. 30			Present.
Gorinchem	Aug. 30-Sept. 4	1		
Middleburg	Sept. 4	1		
Rotterdam	Aug. 20-Sept. 11	34	15	
Tholen	Sept. 4	1		
Uithorn	Aug. 30-Sept. 4	1		
Utrecht	Sept. 4	1		
Vlaardinger	Sept. 4	1		
Phillipine Islands:				
Manila	July 11-31	2	2	Fourth quarter 1908, 308 cases and 190 deaths; first quarter 1909, 1 death (imported).
Provinces				Fourth quarter 1908, 7,330 cases and 4,292 deaths; first quarter 1909, 2,221 cases and 1,405 deaths.
Albay	June 27-Aug. 7	321	237	
Ambos Camarines	July 4-Aug. 7	210	151	
Bulacan	July 4-Aug. 7	69	50	
Cagayan	July 11-Aug. 7	191	96	
Cebu	May 16-July 31	48	22	
Dapitan	May 9-15			Present.
Iloilo	May 23-June 19	28	18	
Isabella	July 18-24	5	4	
Leyte	June 6-July 31	22	11	
Moro	May 29-July 3	9	9	
Mountain	June 20-26	27	15	
Negros Occidental	May 9-15	8	2	
Negros Oriental	May 16-Aug. 7	181	114	
Pampanga	May 9-Aug. 7	371	262	
Pangasinan	June 13-19	1		
Rizal	July 25-31	1	1	
Samar	May 9-July 10	42	26	
Sorsogon	May 9-15	8	2	
Tarlac	July 4-Aug. 7	8	7	
Russia				July 23 present in Kreutzburg, Mahlgraben, Muravjevo, Pinega, Radsiwilischki, Reval, Schaulen, and Tver.
Archangel	June 26-Sept. 3	316	179	
Baku, government	July 4-10	1		
Chmalysk, district	July 1	1		
Courland	July 5-Sept. 3	138	47	
Cronstadt	June 30-Sept. 3	60	25	
Drissa	July 23-Sept. 3	27	14	
Esthonia, government	July 1-Aug. 21	4	3	
Finland, general	July 16	1		
Mariengam	June 23-24	1	1	
Viborg	July 9-16	1		
Gadjatschesk	Aug. 13-Sept. 3	53	18	
Hungerburg	July 30-Sept. 3	3	1	
Jaroslav	July 4-Sept. 3	238	123	
Kem	Aug. 8-Sept. 3	45	23	
Kharkov	Aug. 1-Sept. 3	20	10	
Kief	July 30			Present.
Kostroma	July 23-Sept. 3	13	6	
Kretsky, district	July 1	1		
Livonia	July 5-Aug. 21	85	41	
Mitau	July 15-Sept. 3	15	10	
Mohileve	Aug. 21-Sept. 3	7	6	
Moscow	July 9-Aug. 27	10	3	
Nishni Novgorod	July 4-Aug. 27	11	6	
Novgorod, government	July 4-Sept. 3	218	70	
Olonets, government	June 20-Aug. 14	11	7	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Perm	Aug. 2-Sept. 3	19	8	
Polotzk	June 27-Sept. 3	357	121	
Poltava, government	Aug. 15-Sept. 3	31	15	
Pskov	July 1-Aug. 27	97	42	
Reval	Aug. 21-27	2		
Riga	July 1-Sept. 3	233	88	
Rjasin	June 24-July 16	3	3	
Rubinsk	July 30-Sept. 3	120	67	
Samara	Aug. 15-21	1		
Saratov	Aug. 15-27	4	1	
Simbirsk	July 13	2		
St. Petersburg, government	June 9-July 31	474	169	
St. Petersburg	June 2-Sept. 13	4,401	1,636	
Tver	Aug. 15-Sept. 13	19	1	
Viatka, government	July 6-24	2	2	
Vilna	July 11-Aug. 21	61	20	
Vitebsk, government	July 9-Sept. 13	619	213	
Vologda, government	May 31-Sept. 13	466	294	
Siam:				
Bangkok	Apr. 25-May 28	1		
Siberia:				
Vladivostock	Sept. 23			Present.
Straits Settlements:				
Singapore	May 9-June 5		18	
Sumatra:				
Djambi	July 15-31	170	78	Among natives.
Sweden:				
Stockholm	Aug. 12	1		Imported.

YELLOW FEVER.

Barbados, general	June 13-Aug. 14	2	1	St. Joseph Parish, December to June, 14 deaths not previously reported.
Brazil:				
Bahia	May 22-Aug. 27	40	19	
Manaos	May 23-Aug. 14		11	Apr. 24-May 1—2 deaths. Reported out of date.
Para	May 30-Aug. 28	40	40	
Pernambuco	Apr. 15-July 31		10	
British Guiana:				
Suddie	July 22	1	1	35 miles from Georgetown.
Ecuador:				
Guayaquil	May 23-Aug. 21		43	
Mexico:				
Merida	June 5-Sept. 16	9	2	Sept. 11, 2 cases imported from the district of Acanceh.
Veracruz	Sept. 24	1	1	On S. S. Mexican.
Panama:				
Canal Zone—				
Ancon	Mar. 1-31			1 case at Culebra Island quarantine station, from a vessel, and 1 fatal case en route from Guayaquil.
Venezuela:				
Maiquetia	Aug. 15-25	2	2	

PLAGUE.

Australia:				
Adelaide	Apr. 30-June 12	2	2	And vicinity.
Mackay	Jan. 21-June 6	2	2	
Sydney	Apr. 18-May 29	5	1	
Azores:				
Terceira	June 16	3	1	
Bahrein Island, Persian Gulf	May 29-June 10		6	
Brazil:				
Bahia	May 22-Aug. 6	22	13	
Rio de Janeiro	May 17-July 10	2	1	
Chile:				
Antofagasta	May 9-30	13	5	July 10, 4 cases in the lazaretto.
Iquique	May 20-Aug. 10	19	8	Aug. 22, 4 cases in the lazaretto.
Magillones	May 4			Still present.

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy	June 1-Aug. 14		717	
Canton	May 9-Aug. 7	325	211	
Chang-Poo	July 23			Epidemic.
Chinchew	May 22			Do.
Eng-Ta-Tau	July 1-31	11	4	
Hongkong	May 2-Aug. 7	91	82	
Kang-be	July 24	61	59	
Kang Thau	Apr. 1-July 31	125	62	
Pollam	May 23-29	8	7	
Swatow district	May 16-July 3		450	July 1, 200 cases still present in Touchowfu and Yin Shan.
Swatow	May 16-July 19		2	
Ecuador:				
Chunchi	June 1-30	3	1	
Duran	July 16-31	3		
Guayaquil	May 23-Aug. 28		45	
Huigra	May 1-June 15	16	3	
Egypt:				
Alexandria	May 30-Aug. 19	12	9	
Port Said	May 29-Aug. 24	13	5	
Provinces—				
Assiout	May 14-Aug. 28	48	8	
Beherach	June 14-Aug. 15	36	14	
Galyoobeeyeh	June 2-Aug. 28	7	2	
Garbieh	June 2-Sept. 1	43	17	
Favyum	June 3-23	15	6	
Menouf	Jan. 18-Aug. 17	87	17	
German East Africa:				
Muanza district	Apr. 30-May 22		12	
Hawaii:				
Hilo	Aug. 19-20	1	1	
Honolulu	July 20	1		The case arrived on the s. s. Korea, had been ill 11 days, and probably received infection at Hongkong.
Olaa plantation	Aug. 20-22	3	2	
India:				
Bombay Presidency and Sind.	May 16-Aug. 7	2,383	1,907	
Madras Presidency	May 16-Aug. 7	1,055	650	
Bengal	May 16-Aug. 7	829	717	
United provinces	May 16-Aug. 7	2,134	1,905	
Punjab	May 16-Aug. 7	7,063	6,064	
Burma	May 16-Aug. 7	1,004	952	
Central provinces, including Berar.	May 16-Aug. 7	162	110	
Mysore State	May 16-Aug. 7	707	500	
Central India	July 18-Aug. 7	30	16	
Rajputana and Ajmer-Merwara.	May 16-Aug. 7	998	834	
Kashmir	May 16-June 12	4	3	
Grand total		16,369	13,658	
Indo-China:				
Saigon	May 9-July 31	74	71	
Japan:				
Formosa	May 23-July 17	223	156	In south and central parts.
Kobe	May 30-Aug. 21	13	9	Sept. 13, again present.
Osaka	July 4-10	1	1	
Shikoku, island	July 17-Aug. 3	3	1	
Tokyo	June 26	3		
Yokohama	May 25-Aug. 7	28	24	
Mauritius	Apr. 1-June 30	12	12	
Peru:				
Arequipa, department	May 8-July 29	11	2	
Chala	July 3-15			Present.
Mollendo	July 3-15			Do.
Cajamarca, department	May 8-July 15	20	6	
Callao, department	May 8-Aug. 12	10	4	
Callao	June 20-Aug. 7			Do
Ica, department	July 3-15	1		
Lambayeque, department	May 8-Aug. 12	18	11	
Eten	July 15			Do.
Libertad, department	May 8-Aug. 12	15	7	
Salaverry	July 15			Do.
Lima, department	May 8-Aug. 12	26	10	
Cerro Azul	July 15			Do.
Moquegua, department	July 16-29	6	2	
Ilo	July 15			Do.

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru—Continued.				
Pescadores Islands	June 27-July 3	4		From s. s. Lodore.
Piura, department	June 18-Aug. 12	24	15	
Paita	June 20-July 15			Present.
Russia:				
Kirgisenaul	Aug. 5-8	19	18	In the Ural district, to Aug. 14, 22 deaths.
Siam:				
Bangkok	Apr. 25-June 28	13	13	
Trinidad:				
Port of Spain	June 13-July 18	6	5	
Turkey in Asia:				
Adalia	June 25-July 29	5	3	
Beirut	June 25-July 4	1		In Harrett Aryk.
Uruguay:				
Montevideo	May 1-June 30		2	
Venezuela:				
Caracas	June 18-Aug. 16	13	3	
Zanzibar	July 14-26	1	1	

SMALLPOX.

Algeria:				
Algiers	May 1-Aug. 31	27	19	
Bona	June 1-Aug. 31	35	25	
Arabia:				
Aden	Aug. 3-9		1	
Argentina:				
Buenos Ayres	Mar. 1-June 30		31	
Rosario	Apr. 1-May 31	2	2	
Austria:				
Galicia	June 6-July 31	6		
Silesia	June 20-Aug. 7	17		
Belgium:				
Antwerp	July 18-24	4		
Brazil:				
Bahia	May 22-Aug. 27	56	22	
Pernambuco	Apr. 1-July 31		65	
Rio de Janeiro	May 17-Aug. 22	74	29	
Santos	May 10-16		1	
Sao Paulo	May 10-July 18		12	
Canada:				
British Columbia—				
Vancouver	June 1-July 31	4		
Nova Scotia—				
Halifax	June 13-Aug. 7	5		
Quebec—				
Montreal	June 17			2 cases additional at Grosse Isle on s. s. Virginian.
Ceylon:				
Colombo	May 23-29	2		
Chile:				
Valparaiso	May 16-Aug. 14			Present.
Santiago	May 29-Aug. 21			Do.
China:				
Amoy	June 1-July 10	24	31	May 9-15; present.
Eng-Ta-Tau	July 1-31	9		
Hankow	Apr. 25-June 12			Present among natives.
Hongkong	May 2-June 26	16	12	
Kang Thau	Apr. 1-June 30	7	1	
Newchwang	Aug. 1-14	2	1	
Shanghai	May 10-Aug. 7		8	Among natives.
Tientsin	June 27-July 3	1	2	
Egypt, general	Apr. 30-Aug. 12	1,363	319	
Alexandria	June 1-30	3		
Cairo	May 21-July 29		14	
Suez	May 21-July 8	46	3	
Ecuador:				
Ensenada	Aug. 25			Epidemic.
Guayaquil	June 1-Aug. 10	3		In July, 4 cases and 1 death in vicinity.
France:				
Marseille	June 1-30		5	
Nantes	July 1-31	1		
Paris	May 23-Aug. 21	38	3	
Toulon	July 25-31		1	
Germany, general	May 30-Aug. 28	21		
Gibraltar	Aug. 8	1		

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain:				
Cardiff	July 6	1		
Liverpool	June 21-26	2		Case, June 22, from s. s. Canada.
India:				
Bombay	May 26-Aug. 24		86	
Calcutta	May 16-Aug. 7		126	
Madras	May 22-Aug. 6		13	
Rangoon	May 12-Aug. 14		28	
Indo-China:				
Saigon	May 9-Sept. 5	29	19	
Italy, general	May 31-Sept. 5	187		
Genoa	June 1-Aug. 15	13		
Naples	May 31-Aug. 29	276	46	
Ottiana	June 23	1		
Rome	Mar. 7-13	1	1	
Japan:				
Formosa	June 13-19	1		
Moji	June 6	1		From s. s. Selja.
Osaka	Jan. 1-May 31	3		
Yokohama	June 1-7	1		
Java:				
Batavia	May 6-Aug. 14	21		
Mauritius:				
Port Louis	Apr. 1-30	1	1	
Mexico:				
Aguascalientes	June 21-27		1	
Chihuahua	Aug. 16-22	1		
Guadalajara	June 11-Sept. 9		4	
Mexico	May 16-Aug. 28		86	
Monterey	June 14-Sept. 5		25	
Veracruz	June 1-Sept. 6	12	4	Aug. 12; 6 cases imported from Medellin.
Newfoundland:				
St. Johns	Sept. 4	3		
Norway, general	Apr. 1-May 30	3		
Panama:				
Canal Zone—				
Ancon	Mar. 1-31	1		At Culebra Island quarantine station; from a vessel.
Persia:				
Khorassan	June 1-30			Epidemic.
Kurdistan	June 1-30			Do.
Meshed-i-Sur	June 1-30			Epidemic in vicinity.
Shiraz	May 1-31			Present.
Turbat-i-Haidari	May 1-31			Do.
Peru:				
Lima	July 4-10	1		In the lazaretto.
Mollendo	Aug. 28			Present.
Philippine Islands:				
Manila	May 9-July 31	17	7	Fourth quarter, 1908, 28 cases and 8 deaths; first quarter, 1909, 55 cases and 16 deaths.
Portugal:				
Lisbon	May 30-Sept. 4	119		
Russia:				
Libau	May 6-Aug. 1	4		
Moscow	May 16-Aug. 28	341	105	
Odessa	May 30-Sept. 4	68	11	
Riga	June 6-Sept. 4	65		May 1-June 30, 17 deaths.
St. Petersburg	May 16-Aug. 28	337	77	
Warsaw	Apr. 25-July 31		17	
Siam:				
Bankok	Apr. 25-June 28	2	1	
Siberia:				
Vladivostok	May 15-June 3	4	1	
Spain:				
Barcelona	June 1-Sept. 4		60	
Huelva	May 1-July 31		21	
Madrid	May 1-Aug. 31		352	
Seville	May 1-June 30		2	
Tarragona	July 20-26		1	
Valencia	May 20-Aug. 28	71	3	
Vigo	May 23-Sept. 4		11	
Straits Settlements:				
Singapore	May 16-July 10		2	
Switzerland:				
Aargau, canton	June 20-26	1		
Fribourg, canton	June 13-19	1		
Geneva, canton	May 30-June 26	9		

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Tripoli:				
Tripoli	May 23–Aug. 28	84	17	
Turkey in Asia	July 19			Present in interior.
Bagdad	May 9–Aug. 14			Present.
Bassorah	May 23–June 26			Do.
Hadjin	July 19			Do.
Smyrna	May 7–Aug. 6		64	
Turkey in Europe:				
Constantinople	May 31–Aug. 1		8	
Uruguay:				
Montevideo	Apr. 1–June 30		10	

Weekly mortality table, foreign and insular cities.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from— Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen	Sept. 4	181,918										1		2
Acapulco	Aug. 21	5,000	6											
Do	Aug. 28	5,000	6	1										
Do	Sept. 4	5,000	7	1										
Aguascalientes	Sept. 5	40,000	70	1									1	1
Aix-la-Chapelle	Aug. 21	160,148	79	1								1	8	3
Amoy	Aug. 14	400,000	166		52	12				1				
Amsterdam	Sept. 4	565,394	111	14								1	8	3
Antwerp	Aug. 28	323,921	89	5									5	
Bahia	Aug. 13	265,000	95	19	1		1	4						
Do	Aug. 20	265,000	85	16	1			1					1	
Do	Aug. 27	265,000	108	14	2		1	4					1	
Baracoa	Sept. 4	27,000	6											
Barcelona	do	600,000	290	22				4		2		1		
Belfast	do	386,576	119	12										2
Belgrade	Aug. 28	80,000									2			
Belize	Sept. 9	9,113	3											
Berlin	Aug. 21	2,101,121	525	77						1	16	9	4	17
Birmingham	Sept. 4	558,336	151							1	1			4
Bombay	Aug. 24	977,822	582	47	33	49		4		3			2	
Bremen	Sept. 4	235,648	39	5										1
Breslau	Aug. 28	335,186	232	28								3	4	1
Bristol	Sept. 4	377,642	87	4						2				1
Brussels	Aug. 28	704,975	189	13						1	3	1	3	3
Cairo	Aug. 19	704,436	600	28					8	9		19	6	
Do	Aug. 26	704,436	538	31					5	6		21	7	
Calcutta	Aug. 14	847,796	388	40	18	7							2	
Cartagena, Colombia	Aug. 28	30,000	12	2										
Do	Sept. 4	30,000	8											
Ceiba	do	6,500	3											
Cienfuegos	do	37,000	19											
Chemnitz	Aug. 28	278,205	77	7									1	
Coburg	do	23,322	7											
Cologne	do	476,158	185	16							3	2	3	1
Colon	Sept. 4	16,000	16	2										
Do	Sept. 11	16,000	11	2										
Constantinople	Aug. 29	1,000,000	245	38						16				
Copenhagen [a]	July 17	450,000	117	17								1	2	4
Do	Aug. 21	450,000	100	12							2	1	1	2
Coquimbo	Aug. 14	12,000	17											
Do	Aug. 21	12,000	9											
Dalny	do	38,104	32											
Damascus	Aug. 28	250,000	[b] 52											
Denia	do	12,431	5											
Do	Sept. 4	12,431	1											
Dresden	Aug. 28	545,900	130	13									1	2
Dundee	Sept. 4	169,409	53								2			
Durban	Aug. 14	60,244	16	2								1		

[a] Received out of date.

[b] Estimated.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from— Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Edinburgh	Sept. 4	355,366	96	6								2		4
Erfurt	Aug. 21	107,536	40	1						1		1		
Do	Aug. 28	107,536	56	1							1			
Fiume	July 24	50,811	28	8							1			1
Do	July 31	50,811	20	10										
Do	Aug. 7	50,811	24	5										
Do	Aug. 14	50,811	23	5										
Do	Aug. 21	50,811	26	3										
Flushing	Sept. 4	21,208	2											
Fort de France	Aug. 7	27,069	15											
Do	Aug. 14	27,069	12											
Do	Aug. 21	27,069	17											
Do	Aug. 28	27,069	12											
Frontera	do	9,009	1											
Do	Sept. 4	9,000	4											
Geneva	Aug. 21	121,500	33											
Ghent	Aug. 28	164,579	52	3									2	
Gibraltar	Sept. 5	26,830	4											
Glasgow	Sept. 10	782,021	234							1	3	6	1	1
Greenock	Sept. 4	72,300	20											
Guadalajara	Sept. 2	125,000	85											
Do	Sept. 9	125,000	77					1						
Halifax	Sept. 11	50,000	15	1										
Hamilton	Sept. 6	20,206	5											
Do	Sept. 13	20,206	4											
Havre	Aug. 28	132,430	71	11										
Hilo	do	3,500	6							1				
Do	Sept. 4	3,500		1						1				
Hongkong	July 31	315,616	4		2					2				
Do	Aug. 7	315,616	6		3					3				
Do	Aug. 14	315,616								1				
Hull	Sept. 4	275,552	80							1		1		3
Kobe	Aug. 21	380,717	277							1				
Do	Aug. 28	380,717	258							3				
Konigsberg	do	239,100	92	8								1	3	1
Lausanne	Aug. 21	60,000	12											
Leeds	Sept. 4	480,000	131	7						2		3	3	1
Leith	do	85,721	20	2										1
Liege	Aug. 28	175,843	35	6									2	
Leipsic	do	537,686	193	15							1	3	1	2
Liverpool	Sept. 4	760,357	257	10								4	2	1
London	do	7,429,740	1,638							2	4	14	17	33
Manaos [a]	Apr. 17	52,000	32	1										
Do.[a]	Apr. 24	52,000	21				1							
Do.[a]	May 1	52,000	29	5			1							
Do.[a]	May 8	52,000	28	1										
Manchester	Sept. 4	543,969	184	22							1	1	1	
Mannheim	Aug. 21	183,770	70	11							1			
Magdeburg	Aug. 28	250,328	83							1		2		
Manzanillo	Sept. 11	1,700	1											
Mazatlan	do	22,000	33											
Monterey	Sept. 15	100,000	55	4						1				
Matamoras	Sept. 4	8,000		1										
Do	Sept. 11	8,000		1										
Montreal	do	389,837	146	16						3	3	1		
Moscow	Aug. 28	1,335,104	823	57				4		3	19	10	13	9
Nagasaki	Aug. 22	175,936	47											
Naples	Sept. 4	593,729	283					5						
Newcastle-on-Tyne	do	281,584	91	9										
Newchwang	Aug. 21	60,000	75											
Nottingham	Aug. 28	260,000	84											
Nuremberg	Aug. 14	316,180	111	11								1		1
Odessa	Aug. 28	520,000	254	19						5	19	2	6	
Do	Sept. 4	520,000	286	17						12	16		11	2
Paris	do	2,776,394	752	182						1		3	7	5
Port Elizabeth	Aug. 21	32,959	12	3								1		1
Port of Spain	Aug. 28	60,000	34	4						1				
Prague	do	229,965	93	24						1				
Queenstown	Sept. 4	7,684	4											
Rangoon	Aug. 14	252,155	201	9	27	2		1						

[a] Received out of date.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from— Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Riga	Sept. 4	350,000				19								
Rio de Janeiro	Aug. 22	811,443	241	49						1		1	1	1
Rome [a]	Apr. 10	559,715	209	18						1	2	3	13	3
Do. [a]	Apr. 24	559,715	216	17						1		1	8	
Rotterdam	Sept. 11	414,951	96			1								
Santa Cruz de Teneriffe	Aug. 28	26,000	2											
Santiago de Cuba	Sept. 11	53,614	24									1		
Schiedam	Sept. 12	31,863	7	3										
Sheffield	Aug. 28	472,000	130	12								2		
Do	Sept. 4	472,000	131	10						1				1
Singapore	Aug. 7	260,000	193	29						1				
South Shields	Aug. 28	117,627	39	2							1			
Do	Sept. 14	117,627	27	2										
Stockholm	Aug. 21	339,582	74	18							1	1		
Sunderland	Aug. 28	148,877	38	7										1
Do	Sept. 4	159,137	47	1										
Tarragona	do	20,400	7							3				
Tripoli	Aug. 14	42,000		2				1						
Do	Aug. 21	42,000		4				2						
Do	Aug. 28	42,000		2				2						
Trieste	do	217,706	103										1	
Turin	Aug. 27	381,439	117	22										3
Valencia	Aug. 28	240,000	88	7						4				
Do	Sept. 4	240,000	68	6						2				
Veracruz	do	32,000	33	9				1						
Vevay	Aug. 21	14,500	3											
Vienna	Aug. 28	2,064,037	574	90							5		1	
Victoria	Sept. 11	30,000	8											
Vigo	Sept. 4	40,000	14	3				1		2				
Warsaw	July 31	764,054	289	39				4		1	6	1	4	
West Hartlepool	Sept. 4	66,750	16											
Winnipeg	Sept. 11	122,000	26								1			
Yokohama	Aug. 23	392,870								1				
Do	Aug. 30	392,870								1				

[a] Received out of date.

The following cases of and deaths from smallpox, yellow fever, cholera, and plague have been reported to the Surgeon-General, Public Health and Marine-Hospital Service, during the week ended October 1, 1909:

SMALLPOX—UNITED STATES.

	Date.	Cases.	Deaths.	Remarks.
District of Columbia:				
Washington	Sept. 11-18	2		
Illinois:				
Danville	do	1		
Massachusetts:				
Boston	do	1		
Missouri:				
St. Louis	do	1		
Ohio:				
Columbus	do	1		
Indiana (8 counties)	July 1-31	61	2	
North Carolina (8 counties)	do	50		

SMALLPOX—FOREIGN.

	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia	Aug. 6-27	18	9	
Rio de Janeiro	Aug 15-22	3		
India:				
Bombay	Aug. 10-17		2	
Rangoon	Aug. 7-14		1	
Italy, general	Aug. 8-Sept. 5	18		
Naples	Aug. 29-Sept. 5	9	5	
Java:				
Batavia	Aug. 7-14	2		
Mexico:				
Guadalajara	Sept. 3-9		1	
Mexico City	Aug. 14-28		7	
Portugal:				
Lisbon	Aug. 28-Sept. 4	12		
Russia:				
Moscow	Aug. 21-28	5	4	
Odessa	do	11		
Riga	Aug. 28-Sept. 4	6		
Spain:				
Valencia	Aug. 21-28	1		
Vigo	Aug. 28-Sept. 4		1	
Tripoli:				
Tripoli	Aug. 7-28	26	5	

YELLOW FEVER—FOREIGN.

Brazil:				
Bahia	Aug. 6-27	3	2	
Mexico:				
Merida	Sept. 9-16	1		
Veracruz	Sept. 24	1	1	From steamship Mexican.

CHOLERA—FOREIGN.

China:				
Amoy	Aug. 7-14		12	
Chefoo	Aug. 28		5	Among Europeans.
India:				
Bombay	Aug. 10-17		43	
Rangoon	Aug. 7-14		2	
Japan:				
Amagasaki	Aug. 14-21	4		
Netherlands:				
Rotterdam	Sept. 4-11		1	
Russia, general	Aug. 28-Sept. 3	520	229	
Moscow	Aug. 21-28	1		
Riga	Aug. 28-Sept. 4	46	19	
St. Petersburg	do	171	82	
Sumatra:				
Djambi	July 15-31	170	78	

PLAGUE—UNITED STATES.

California:				
Alameda County	Sept. 24	1		

PLAGUE—FOREIGN.

Brazil:				
Bahia	Aug. 6-27	8	4	
China:				
Amoy	Aug. 7-14		52	
Canton	July 24-Aug. 7	15	12	
Hongkong	July 31-Aug. 7	3	3	
Ecuador:				
Guayaquil	Aug. 21-28		4	
Egypt, general	Aug. 19-Sept. 3	17	6	
Alexandria	Aug. 21	1	1	
Port Said	Aug. 20-24	1	2	

PLAGUE—FOREIGN—Continued.

	Date.	Cases.	Deaths.	Remarks.
India, general	Aug. 7-14	1,659	1,251	
Bombay	Aug. 10-17		35	
Rangoon	Aug. 7-14		27	
Japan:				
Kobe	Aug. 14-21	1	1	

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,
United States Public Health and Marine-Hospital Service.